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NOTES ON GEOGRAPHIC DISTRIBUTION

Reptilia, Squamata, Polychrotidae, *Anolis fuscoauratus* D´Orbigny, 1837: Distribution extension for the state of Rio Grande do Norte, Brazil

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ABSTRACT: We provide the first record of *Anolis fuscoauratus* D'Orbigny, 1837 for the state of Rio Grande do Norte and a distribution map for the species in the Atlantic Rainforest of northeastern Brazil. The record of *A. fuscoauratus* in the municipality of Tibau do Sul, state of Rio Grande do Norte, represents a distribution extension of 170 km northwestern from the municipality of Cabedelo, state of Paraíba. This is the northernmost record of this species in the Atlantic Rainforest.

Anolis fuscoauratus D'Orbigny, 1837 is a primarily arboreal species that can be found up to eight meters high (Dixon and Soini 1975) in secondary vegetation, edges, clearings, and in leaf litter (Vanzolini 1972; Dixon and Soini 1975; Duellman 1978; Freire 1996). It is widely distributed in northern South America east of the Andes in Peru, Colombia, Ecuador, Bolivia, Venezuela, Guyana, Suriname, French Guiana, and Brazil. The current distribution of *A. fuscoauratus* in Brazil comprises Amazon Rainforest in the states of Pará, Amazonas, Rondônia, Amapá, and Acre (Ávila-Pires 1995), Atlantic Rainforest from the state of Paraíba to the state of Rio de Janeiro (Freire 1996; Santana *et al.* 2008; Goyannes-Araújo *et al.* 2009), and moist forests remnants located at semi-arid Caatingas in state of Ceará (Borges-Nojosa and Caramaschi 2003; Loebmann and Haddad 2010).

In the Atlantic Rainforest of northeastern Brazil, *A. fuscoauratus* is found in the states of Alagoas, Bahia, Paraíba, Pernambuco, and Sergipe (Williams and Vanzolini 1980; Freire 1996; Silva *et al.* 2006; Santana *et al.* 2008). Here, we report the record of *Anolis fuscoauratus* in the Atlantic Rainforest from the state of Rio Grande do Norte.

On 6 March 2009, a male of *A. fuscoauratus* (Figure 1) was collected in the Parque Estadual Mata da Pipa (06°14'55" S, 35°03'27" W, 62 m elevation), municipality of Tibau do Sul, state of Rio Grande do Norte, Brazil.

The specimen was found perched on a branch *ca.* 7 m above the ground in preserved forest area at 12:30 h, and was collected with the aid of a slingshot. The lizard was deposited in the Coleção Herpetológica da Universidade Federal do Rio Grande do Norte, Natal, Rio Grande do Norte (CHBEZ 2661; collection permit #12734-1 – IBAMA/SISBIO).

This is the first record of *A. fuscoauratus* for the state of Rio Grande do Norte, extending the species distribution range *ca.* 170 km northwestern from Cabedelo, state of Paraíba (Freire 1996) (Figure 2).

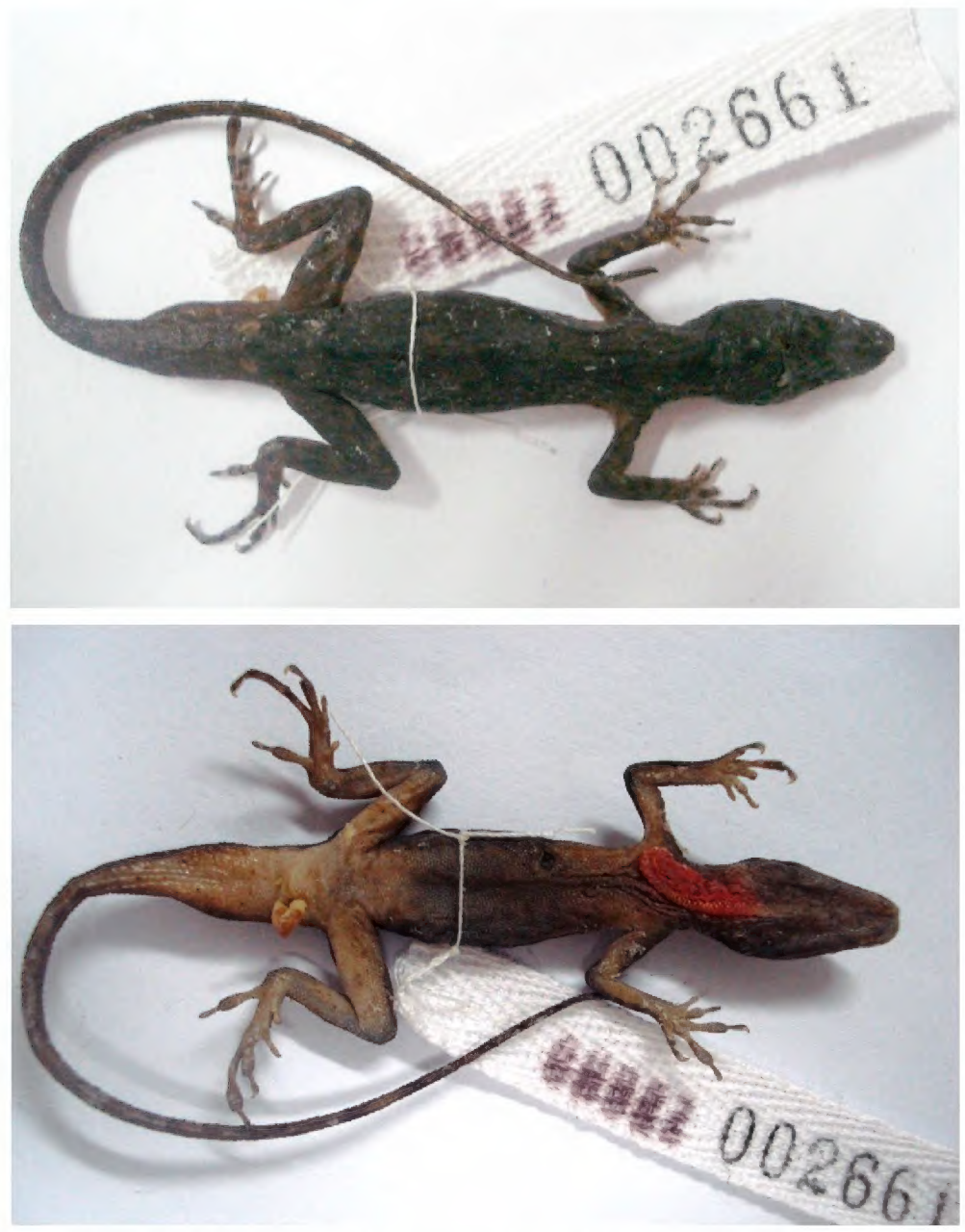

FIGURE 1. *Anolis fuscoauratus*, juvenile male from Tibau do Sul, Brazil (CHBEZ 2661). Photo by Mariana T. Capistrano.

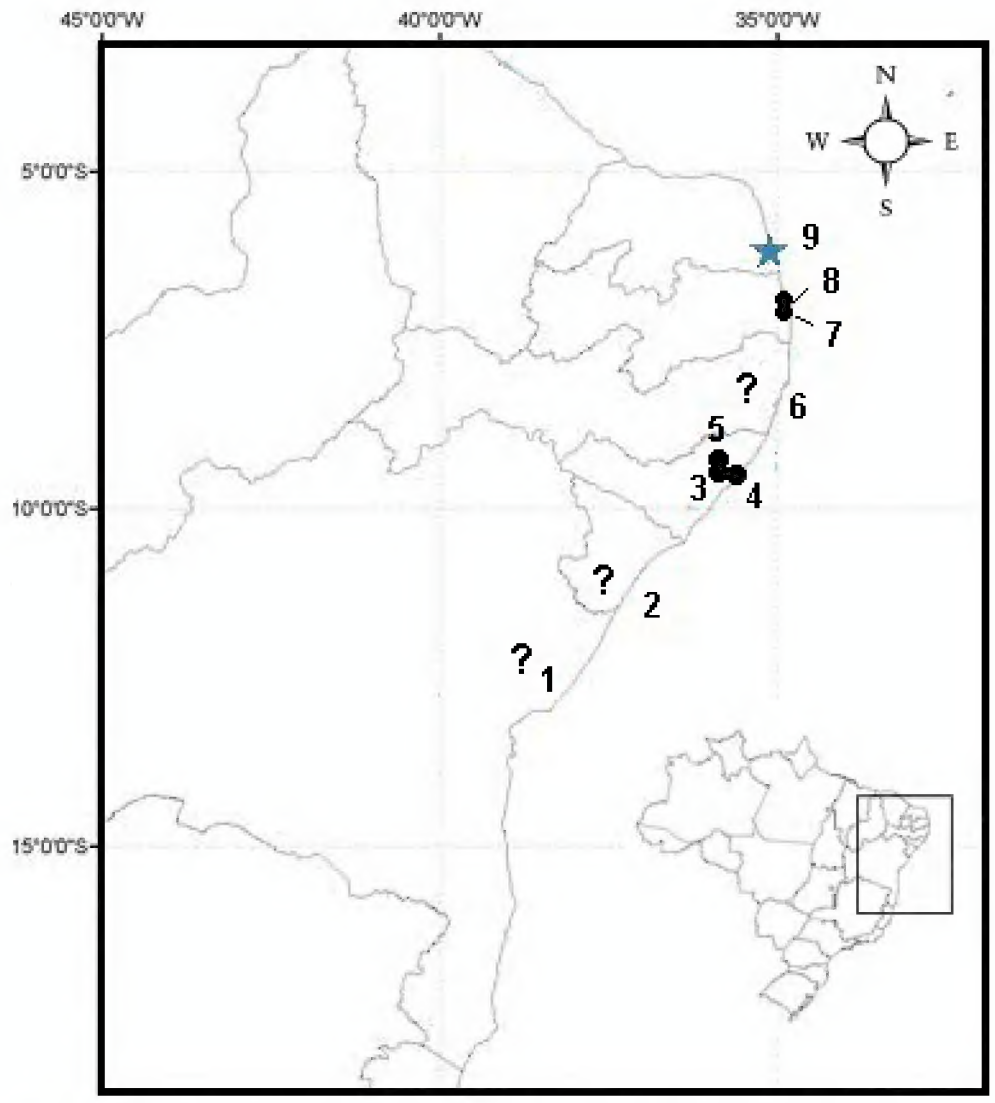

Figure 2. Known geographic distribution of *Anolis fuscoauratus* in the Atlantic Rainforest of northeastern Brazil. 1 – State of Bahia, with no specific localities of occurrence (Williams and Vanzolini 1980); 2 – State of Sergipe, with no specific localities of occurrence (Williams and Vanzolini 1980); 3, 4 and 5 – Municipalities of Rio Largo, Maceió and Murici, state of Alagoas (Silva *et al.* 2006; E. M. X. Freire pers. obs.); 6 – State of Pernambuco, with no specific localities of occurrence (Williams and Vanzolini 1980); 7 and 8 – Municipalities of João Pessoa (Santana *et al.* 2008) and Cabedelo (Freire 1996), state of Paraíba; 9 - Municipality of Tibau do sul, state of Rio Grande do Norte (present record).

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Literature Cited

Ávila-Pires, T.C.S. 1995. Lizards of Brazilian Amazonia (Reptilia: Squamata). *Zoologische Verhandelingen* 299: 1-706.

Borges-Nojosa, D.M. and U. Caramaschi. 2003. Composição e análise comparativa da diversidade e das afinidades biogeográficas dos lagartos e anfisbenídeos (Squamata) dos Brejos Nordestinos; p. 489-540. *In* I.R. Leal, M. Tabarelli and J.M.C. Silva (ed.). *Ecologia e conservação da Caatinga*. Recife: Universidade Federal de Pernambuco.

Dixon, J.R. and P. Soini. 1975. The reptiles of the upper Amazon Basin, Iquitos Region, Peru. I. Lizards and Amphisbaenians. *Contributions to Biology and Geology* 4: 1-58.

Duellman, W.E. 1978. The biology of an Equatorial Herpetofana in Amazonian Ecuador. *University of Kansas Museum of Natural History Miscellaneous Publications* 65: 1-352.

Freire, E.M.X. 1996. Estudo ecológico e zoogeográfico sobre a fauna de lagartos (sauria) das dunas de Natal, Rio Grande do Norte e da restinga de Ponta de Campina, Cabedelo, Paraíba, Brasil. *Revista Brasileira de Zoologia* 13(4): 903-921.

Goyannes-Araújo, P., M. Almeida-Gomes, V.N.T. Borges-Junior, H.G. Albuquerque, D. Vrcibradic and C.F.D. Rocha. 2009. Reptilia, Polychrotidae, *Anolis fuscoauratus*: Distribution extension. *Check List* 5(3): 746-748.

Loebmann, D. and Haddad, C.F.B. 2010. The herpetofauna from the complex of Chapada da Ibiapaba, state of Ceará, Northeastern Brazil: composition and conservation implications for the area with the highest species richness of the Caatinga biome. *Biota Neotropica* 10(3): 227-256.

Santana, G.G., W.L.S. Vieira, G.A. Pereira-Filho, F.R. Delfim, Y.C.C. Lima and K.S. Vieira. 2008. Herpetofauna em um fragmento de Floresta Atlântica no Estado da Paraíba, Região Nordeste do Brasil. *Biotemas* 21(1): 75-84.

Silva, S.T., U.G. Silva, G.A.B. Sena and F.A.C. Nascimento. 2006. A biodiversidade da mata atlântica alagoana: anfíbios e répteis; p 65-76 *In* F.B.P. Moura (org.). *A Mata Atlântica em Alagoas*. Maceió: EdUFAL.

Vanzolini, P.E. 1972. Miscellaneous notes on the ecology of some Brazilian lizards (Sauria). *Papéis Avulsos de Zoologia* 26(8): 83-115.

Williams, E.E. and P.E. Vanzolini. 1980. Notes and biogeographic comments on Anoles from Brazil. *Papéis Avulsos de Zoologia* 34(6): 99-108.

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